

## Evaluation Report for Category B, Subcategory 3.1 Application

**Application Number:** 2021-5074  
**Application:** Changes to Technical Grade Active Ingredient Product Chemistry-Specifications  
**Product:** Banvel Dicamba Technical Herbicide  
**Registration Number:** 19290  
**Active ingredient (a.i.):** Dicamba (present as acid, ester, salts)  
**PMRA Document Number :** 3398261

### Purpose of Application

The purposes of this application were to provide clarifications and make amendments to the manufacturing process of registered technical-grade product Banvel Dicamba Technical Herbicide.

### Chemistry Assessment

Common Name: Dicamba  
 IUPAC\* Chemical Name: 3,6-dichloro-2-methoxybenzoic acid  
 CAS† Chemical Name: 3,6-dichloro-2-methoxybenzoic acid

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Banvel Dicamba Technical Herbicide has the following properties:

| Property                              | Result                             |
|---------------------------------------|------------------------------------|
| Colour and physical state             | Colourless crystalline solid       |
| Nominal concentration                 | 92.0 %                             |
| Odour                                 | Odourless (pure dicamba)           |
| Specific gravity                      | 1.488                              |
| Vapour pressure                       | 1.67 mPa                           |
| pH                                    | 2.37                               |
| Solubility in water                   | <u>pH</u>                          |
|                                       | 1.8 <u>Solubility</u><br>6.6 g/L   |
|                                       | 4.1, 6.8, 8.2      > 250 g/L       |
| n-Octanol/water partition coefficient | <u>pH</u>                          |
|                                       | 5.0 <u>K<sub>ow</sub></u><br>0.282 |
|                                       | 6.8                      0.0132    |
|                                       | 8.9                      0.0126    |

The required chemistry data for Banvel Dicamba Technical Herbicide have been provided, reviewed, and found to be acceptable.

## **Health Assessments**

Banvel Dicamba Technical Herbicide is considered toxicologically equivalent to a precedent product. No new toxicology data were requested or required.

Dietary and occupational exposure risk assessments were not required for this application.

## **Environmental and Value Assessments**

Environmental and value assessments were not required for this application.

## **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found it sufficient to support the amendments to the registration of Banvel Dicamba Technical Herbicide.

## **References**

### **PMRA**

#### **Document**

| <b>Number</b> | <b>Reference</b>   |
|---------------|--|
| 3270234       | 2021, Details of Revision to the Manufacturing Process of Banvel Dicamba Technical Herbicide, Registration No. 19290, DACO: 2.1, 2.11, 2.12, 2.12.1, 2.13.1, 2.13.3, 2.16, 2.2 CBI |
| 3270235       | 2021, Amended Product Identity and Composition of Dicamba Technical (TGAI), DACO: 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.13.4 CBI   |

© His Majesty the King in Right of Canada, as represented by the Minister of Health Canada, 2022

All rights reserved. No part of this information (publication or product) may be reproduced or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, or stored in a retrieval system, without prior written permission of Health Canada, Ottawa, Ontario K1A 0K9.